WHAT IS CLAIMED IS:

- An electronic circuit for a contactless tag, comprising:

 a transceiving device having an antenna coil; and
 means for switching between a state where the antenna coil forms a

 resonance circuit of the transceiving device and a state where the antenna coil forms a booster circuit.
- 2. The electronic circuit for a contactless tag according to claim 1, wherein the means for switching switches between the two states based on an electromotive force induced by the antenna coil due to electromagnetic induction.
- 3. The electronic circuit for a contactless tag according to claim 1, wherein the means for switching is a changeover switch having a first connection terminal for the resonance circuit and a second connection terminal for the booster circuit, which are sequentially connected to the antenna coil according to a circuit changeover control signal, and

the electronic circuit further comprises:

means for rectifying the electromotive force via the first connection terminal to generate a rectified voltage;

first and second capacitors connected in parallel to the means for rectifying for storing the rectified voltage;

a battery connected to the second connection terminal;

means for generating the circuit changeover control signal and a switching driving signal based on the rectified voltage; and

a charge pump that is turned on and off according to the switching driving signal when the booster circuit is formed according to the circuit

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changeover control signal, and that causes a first current that is conducted through the antenna coil from the battery to flow so as to store a charge in the antenna coil during an ON time, while supplying a boosted voltage based on a counter electromotive force generated in the antenna coil to the second capacitor so as to cause a second current to flow to the second capacitor from the antenna coil during an OFF time.

4. The electronic circuit for a contactless tag according to claim 1, wherein the means for switching is a changeover switch having a first connection terminal for the resonance circuit and a second connection terminal for the booster circuit, which are sequentially connected to the antenna coil according to a circuit changeover control signal, and

the electronic circuit further comprises:

means for rectifying the electromotive force via the first connection terminal to generate a rectified voltage;

first and second capacitors connected in parallel to the means for rectifying for storing the rectified voltage;

a battery connected in parallel to the means for rectifying; means for generating the circuit changeover control signal and a switching driving signal based on the rectified voltage; and

a charge pump that is turned on and off according to the switching driving signal when the booster circuit is formed according to the circuit changeover control signal, and that causes a first current that is conducted through the antenna coil from the battery to flow so as to store a charge in the antenna coil during an ON time, while supplying a boosted voltage based on a counter electromotive force generated in the antenna coil to the second capacitor so as to cause a second current to flow to the second

capacitor from the antenna coil during an OFF time.

- 5. The electronic circuit for a contactless tag according to claim 3, further comprising a means for detecting the rectified voltage, wherein the battery is connected to the second connection terminal via the means for generating according to the detected rectified voltage.
- 6. The electronic circuit for a contactless tag according to claim 4, wherein the battery is chargeable, and the electronic circuit further comprises a means for detecting a voltage of the battery, wherein the circuit changeover control signal is generated based on the detected voltage of the battery.
- 7. The electronic circuit for a contactless tag according to claim 6, wherein the means for generating comprises:

an antenna changeover circuit that generates the circuit changeover control signal based on the rectified voltage or the voltage of the battery; and

a field-effect transistor (FET) control circuit that generates a switching gate signal having a duty ratio corresponding to a predetermined ratio of an ON-OFF operation according to the circuit changeover control signal.

- 8. A contactless tag using the electronic circuit for a contactless tag according to claim 1.
- 9. The electronic circuit for a contactless tag according to claim 1, wherein the transceiving device is brought into close proximity to a reader/writer for data communication.

- 10. The electronic circuit for a contactless tag according to claim 9, wherein the antenna coil resonates according to a power supplied from the reader/writer when it is brought into close proximity to the reader/writer.
 - 11. An electronic circuit for a contactless tag, comprising: a transceiving device having an antenna coil; and

a circuit changeover switch that switching between a state where the antenna coil forms a resonance circuit of the transceiving device and a state where the antenna coil forms a booster circuit.

- 12. The electronic circuit for a contactless tag according to claim 11, wherein the circuit changeover switch switches between the two states based on an electromotive force induced by the antenna coil due to electromagnetic induction.
- 13. The electronic circuit for a contactless tag according to claim 11, wherein the circuit changeover switch has a first connection terminal for the resonance circuit and a second connection terminal for the booster circuit, which are sequentially connected to the antenna coil according to a circuit changeover control signal, and

the electronic circuit further comprises:

a rectification circuit that rectifies the electromotive force via the first connection terminal to generate a rectified voltage;

first and second capacitors connected in parallel to the rectification circuit for storing the rectified voltage;

a battery connected to the second connection terminal;

a control circuit that generates the circuit changeover control signal and a switching driving signal based on the rectified voltage; and

a charge pump that is turned on and off according to the switching driving signal when the booster circuit is formed according to the circuit changeover control signal, and that causes a first current that is conducted through the antenna coil from the battery to flow so as to store a charge in the antenna coil during an ON time, while supplying a boosted voltage based on a counter electromotive force generated in the antenna coil to the second capacitor so as to cause a second current to flow to the second capacitor from the antenna coil during an OFF time.

14. The electronic circuit for a contactless tag according to claim 11, wherein the circuit changeover switch has a first connection terminal for the resonance circuit and a second connection terminal for the booster circuit, which are sequentially connected to the antenna coil according to a circuit changeover control signal, and

the electronic circuit further comprises:

a rectification circuit that rectifies the electromotive force via the first connection terminal to generate a rectified voltage;

first and second capacitors connected in parallel to the rectification circuit for storing the rectified voltage;

a battery connected in parallel to the rectification circuit;

a control circuit that generates the circuit changeover control signal and a switching driving signal based on the rectified voltage; and

a charge pump that is turned on and off according to the switching driving signal when the booster circuit is formed according to the circuit changeover control signal, and that causes a first current that is conducted through the antenna coil from the battery to flow so as to store a charge in the antenna coil during an ON time, while supplying a boosted voltage

based on a counter electromotive force generated in the antenna coil to the second capacitor so as to cause a second current to flow to the second capacitor from the antenna coil during an OFF time.

- 15. The electronic circuit for a contactless tag according to claim 13, further comprising a detector that detects the rectified voltage, wherein the battery is connected to the second connection terminal via the control circuit according to the detected rectified voltage.
- 16. The electronic circuit for a contactless tag according to claim 14, wherein the battery is chargeable, and the electronic circuit further comprises a detector that detects a voltage of the battery, wherein the circuit changeover control signal is generated based on the detected voltage of the battery.
- 17. The electronic circuit for a contactless tag according to claim 16, wherein the control circuit comprises:

an antenna changeover circuit that generates the circuit changeover control signal based on the rectified voltage or the voltage of the battery; and

a field-effect transistor (FET) control circuit that generates a switching gate signal having a duty ratio corresponding to a predetermined ratio of an ON-OFF operation according to the circuit changeover control signal.

18. The electronic circuit for a contactless tag according to claim 11, wherein the transceiving device is brought into close proximity to a reader/writer for data communication.

- 19. The electronic circuit for a contactless tag according to claim 18, wherein the antenna coil resonates according to a power supplied from the reader/writer when it is brought into close proximity to the reader/writer.
- 20. A method for manufacturing an electronic circuit system for a contactless tag, comprising:

bringing a transceiving device into close proximity to a reader/writer for data communication;

providing an antenna coil that resonates according to power supplied from the reader/writer when brought into close proximity with the reader/writer; and

switching between a state where the antenna coil forms a resonance circuit of the transceiving device and a state where the antenna coil forms a booster circuit.